## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Please cancel claims 1-19, 22 and 47-53 without prejudice or disclaimer.

Please rewrite claims 23-28 as follows.

Please add new claim 54 as follows.

## **Listing of Claims:**

Claims 1-19: (canceled)

20. (withdrawn) A lithium secondary cell comprising:

a cell case, and

an electrode body provided with a positive electrode made of a positive electrode active material and a negative electrode made of a negative electrode active material contained in the cell case, wound or laminated with a separator inserted in between and impregnated with a non-aqueous electrolyte made of a lithium compound dissolved into an organic solvent,

wherein when said non-aqueous electrolyte or said organic solvent is dropped onto said separator and a contact angle measured immediately after the dropping is  $\theta_1$  and a contact angle measured 15 minutes after the dropping is  $\theta_2$ , said separator and said non-aqueous electrolyte or said organic solvent satisfy a relation expressed in the following Expression (11).

$$(\theta_1 - \theta_2)/\theta_1 > 0.4$$
 ... (11)

21. (withdrawn) The lithium secondary cell according to claim 20, wherein the contact angle measured immediately after said dropping is 60° or less.

Claim 22: (canceled)

- 23. (currently amended) The lithium secondary cell according to claim 2254, wherein said penetration rate is equal-to or more than at least 2 mg/min·cm<sup>2</sup>.
- 24. (currently amended) The lithium secondary cell according to claim 2254, wherein said penetration rate is equal to or more than at least 50 mg/min cm<sup>2</sup>.
- 25. (currently amended) The lithium secondary cell according to claim 2054, wherein the a material of said separator is an olefin resin.
- 26. (currently amended) The lithium secondary cell according to claim 2054, wherein the a material of said separator is substantially cellulose or a cellulose derivative or a paper made-of comprising a mixture of these materials cellulose and a cellulose derivative.
- 27. (currently amended) The lithium secondary cell according to claim 2254, wherein the a material of said separator is a nonwoven fabric textile made of comprising a fabric polyolefin, and said penetration rate is 2 to 30000 mg/min cm<sup>2</sup>.

- 28. (currently amended) The lithium secondary cell according to claim 2254, wherein the a material of said separator is a nonwoven fabric textile made of comprising a fabric polyolefin, and said penetration rate is 50 to 5000 mg/min·cm<sup>2</sup>.
- 29. (withdrawn) A lithium secondary cell comprising:a cell case, and

an electrode body provided with a positive electrode made of a positive electrode active material and a negative electrode made of a negative electrode active material contained in the cell case, wound or laminated with a separator inserted in between and impregnated with a non-aqueous electrolyte made of a lithium compound dissolved into an organic solvent,

wherein the material of said separator is a nonwoven fabric textile made of fabric polyolefin and the density of said separator is 0.4 to 0.85 g/ml.

- 30. (withdrawn) The lithium secondary cell according to claim 29, wherein said density is 0.6 to 0.8 g/ml.
- (withdrawn) The lithium secondary cell according to claim 29, wherein the thickness of said separator is 5 to 50 μm.
- 32. (withdrawn) The lithium secondary cell according to claim 29, wherein said separator is obtained by compressing said nonwoven fabric textile.

- 33. (withdrawn) The lithium secondary cell according to claim 29, wherein said nonwoven fabric textile is mixed with an electrical insulating inorganic or organic substance.
- 34. (withdrawn) The lithium secondary cell according to claim 33, wherein said nonwoven fabric textile is mixed with said inorganic or organic substance and then compressed.
- 35. (withdrawn) The lithium secondary cell according to claim 32, wherein the weighing capacity of said nonwoven fabric textile before the compression is 5 to 30 g/m<sup>2</sup>.
- 36. (withdrawn) The lithium secondary cell according to claim 33, wherein said inorganic substance is an oxide and/or carbonate.
- 37. (withdrawn) The lithium secondary cell according to claim 33, wherein said inorganic substance is at least one type selected from a group of alumina, calcia, magnesia, calcium carbonate, magnesium carbonate and zeolite.
- 38. (withdrawn) The lithium secondary cell according to claim 33; wherein said organic substance is at least one type selected from a group of methyl cellulose derivative, fluorine-based high polymer and rubber.

- 39. (withdrawn) The lithium secondary cell according to claim 33, wherein said organic substance is at least one type selected from a group of carboxymethyl cellulose (CMC), polytetrafluoroethylene (PTFE), polyvinylidene fluoride (PVDF) and styrenebutadiene rubber (SBR).
- 40. (withdrawn) The lithium secondary cell according to claim 20, wherein said lithium compound is LiPF<sub>6</sub>.
- 41. (withdrawn) The lithium secondary cell according to claim 20, wherein said organic solvent is a mixed solvent of ring-shaped carbonate and chain-shaped carbonate.
- 42. (withdrawn) The lithium secondary cell according to claim 20, wherein said positive electrode active material is a lithium manganate having a cubic system spinel structure whose main components are Li and Mn.
- 43. (withdrawn) The lithium secondary cell according to claim 20, wherein the capacity of the cell is 2 Ah or more.
- 44. (withdrawn) The lithium secondary cell according to claim 20, which is to be mounted on a vehicle.

- 45. (withdrawn) The lithium secondary cell according to claim 44, which is to be used for an electric vehicle or hybrid electric vehicle.
- 46. (withdrawn) The lithium secondary cell according to claim 44, which is to be used to start an engine.

Claims 47-53: (canceled)

54. (new) A lithium secondary cell, comprising:
a cell case;

an electrode body contained in the cell case and including a positive electrode, a negative electrode, and a separator positioned between the positive and the negative electrodes, wherein the positive electrode, the negative electrode and the separator are wound or laminated together; and

a non-aqueous electrolyte impregnating the electrode body and including a lithium compound dissolved in an organic solvent including a composition having at least one ring-shaped carbonate and at least two chain-shaped carbonates,

wherein a capacity of said lithium secondary cell is at least 2 Ah, and a ratio of a limit discharging current to said cell capacity is at least 30, and wherein a penetration rate of said non-aqueous electrolyte or said organic solvent through said separator per unit time and per unit area is at least 0.25 mg/min·cm<sup>2</sup>, said penetration rate being expressed with a gradient of regression line formed by at least two measured amounts

of said non-aqueous electrolyte or said organic solvent having passed through the separator over at least two time intervals.